

SAM (REX/Ops) Operations Meeting 2008.02.26

Present: Adam (typist), SteveW, SteveS, Eric Wicklund, Jerry Guglielmo, Robert, Randolph

For reports submitted to the meeting...

The report text is in this font

Comments made during the meeting are in this font inline with the report

Releases:

No new releases

Special:

Eric has been looking into the CDF production problem that required us about a week ago to backfill the DFC due to a DFC dependency in the production software. He found an environment variable switch that turned on already written SAM code to do the query. The prod system is turning this switch on. There is another problem where for some files the run section information is not written out. Eric is looking into this now and has alerted Liz SK about this problem (not sure if Liz can help).

DØ:

Events worth mentioning:

Feb. 20, 2008 (Anil Kumar) : Patch has been deployed successfully on d0ofdev1, which took ~2 minutes.

Patch is scheduled to be installed on the March down day. Patch is not related to the security patch. If DB crashes again before the down day, the patch will be deployed. Apparently this patch is not needed for CDF and MINOS because the situation for D0 was somehow special (but Anil will check into that).

Eric points out that this week's computing seminar is (in part) about MySQL replication.

Unresolved issues:

#3398: delivery failure from dodge.hep.man.ac.uk:/data1/sam/durable

We installed the new certificate but it still doesn't work. Looking into why.

#3397: File delivery problems from Enstore for FARM

Since 1/13, MC jobs have been storing their files to tape, not to the durable location. Possibly a bug in D0runjob, but no one has responded to our query about this. Won't get help from Parag due to new addition to the family (Congratulations!).

#3393: fnal-cabsrv1 not delivering files : Asking whether the user still has problems in cabsrv1 ?

User (Herb) is on furlough.

#3392: samg submit failing : Have we figured this out yet ?

The too many directories problem? (ext3 has a limit of 31998 subdirectories in a directory - condor exceeded that for the submission node -- two directories per job -- plan is to keep 6 mo of job information. Robert removed some directories, but this will be a long term problem. Perhaps long term solution is a second submission node.

#3389: problem at red.unl.edu --- which is a MC production center . Can anybody help ??

We need to look at this one.

Robert: Someone started 1000 projects on D0 and this made the station run out of resources.

CDF:

fcdfdata320-1/2/3/4 still inactive
9940B27 is still being tested.

Tue Feb 19

all CAF file delivery stopped around 04:00

Email from Angela Bellavance:

Due to the projects with more than 1000 sections!

The station ended up stuck in a loop trying to process this project but failing to talk to it because it was out of handles. Robert killed the culprit project.

Wed Feb 20

From David Berg :

IAB313 - label replaced, tape is available.

Mon Feb 25

LTO3_05 was offline

LTO3_10 was dead

LTO3_28 was dead

LTO3_31 was offline

email from Stanley :

Three of the four drives seem to coincide with the tab flipping operation. LTO3_05 has other problems.

Angela has started a test SAM DB server on one of the new nodes (that will be migrated to eventually).

MINOS:

General -

AFS - Timeouts continue.

Kreymer may miss this week's meeting, due to Grid School today.

Enstore -

DCache -

SAM -

Production dbserver using sam_db_srv_pkg v8_4_3

Development release uses sam_cpp_api v8_4_0_1, supports sam locate

IT 1979: Compiler warnings from sam_cpp_api

This problem is resolved by sam_cpp_api v8_4_0_1

Switch to Omniorb fixed compiler warnings (Orbacus is too old).

Robert has another release in the near future to handle compilation on SL3 nodes (to fix the fact that SL3 does not support IPV6, which we don't need anyway) -- code is changed so that it doesn't try to start an IPV6 connection.

Oracle -

Quarterly patches installed on schedule Thu 21 Feb.

OPEN ISSUES

IT 1146: cannot test existence of sam tape location

IT 2071: quadratic project startup time growth

PLAN -

Migration to 9940B tape can proceed anytime

DB:

- d0ofprd1 crashed on Feb 18 Monday. Restarted the db. Oracle has provided patch for the fix.

On 02/20/2008, patch had been deployed successfully on d0ofdev1. Planning to deploy this patch

on d0ofint1 and d0ofprd1 during march downtime.

- Scheduling Schema cut on d0ofprd1 during March 4th downtime - Start 8:00AM Downtime for 2 hours.

- To add composite index on lower(file_name) and retired_date

- Drop the unique index on lower(file_name)
- Recreate as non-unique on file_name.
- drop the unique constraint on file_name and retired_date
- v6_14 SAM Schema cut on d0ofprd1
 - Global Temporary table NUMBER_PAIRS
 - Index on cached_files on end_time column
- Apply the patch 5926486

Alert(s):

- Added to 2GB to OPERATIONAL_IDX_01

Owner	Object	Type	Extents Used	Extents Allocated	Extents Left
SAMPRD	FI_FI_UK	INDEX	296	300	4

Action : Increased the max extents to 500

CDF :

- Need to schedule the patch on cdfofpr2 and SAM schema v6_10
- v6_14 SAM Schema cut pending on all databases.

Alert(s):

MINOS:

- Applied the db security patch and deployed the sam schema v6_10 on 02/21/2008
- v6_14 SAM schema cut pending on all databases.

Thanks,

Comments

Enstore/dCache:

No report this week.